

10/15/01  
1036 U.S. PTO  
09/97540

Please type a plus sign (+) inside this box → **+**

10-16-01

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.	7000-103
First Inventor	Tarokh, Vahid
Title	EFFICIENT OFDM COMMUNICATIONS WITH INTERFERENCE IMMUNITY
Express Mail Label No.	EL873243331US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- ☒ Specification [Total Pages **26**]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **3 sets of 5**]
- Oath or Declaration [Total Pages **3**]
  - ☒ Newly executed (original or copy)
  - ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)
  - ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

## ACCOMPANYING APPLICATIONS PARTS

- ☒ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - ☐ Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - ☐ CD-ROM or CD-R (2 copies); or
    - ☐ paper
  - ☐ Statements verifying identity of above copies
- ☒ Assignment Papers (cover sheet & document(s))
- ☒ 37 C.F.R. §3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
- ☐ English Translation Document (if applicable)
- ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
- ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- ☐ Other: \_\_\_\_\_

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)  
Prior application information: Examiner \_\_\_\_\_

of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
Group / Art Unit: \_\_\_\_\_

For **CONTINUATION** or **DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

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or ☐ Correspondence address below

Name

27820

PATENT TRADEMARK OFFICE

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Benjamin S. Withrow

Registration No. (Attorney/Agent)

40,876

Signature

Date

October 15, 2001

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10/15/01

jc951 U.S. PTO

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# FEE TRANSMITTAL


## for FY 2001

*Patent fees are subject to annual revision.*

**Complete if Known**

TOTAL AMOUNT OF PAYMENT	(\$)	1134	Attorney Docket No.	7000-103
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METHOD OF PAYMENT (check one)					FEE CALCULATION (continued)					
<b>1.</b> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:					<b>3. ADDITIONAL FEES</b>					
Deposit Account Number	50-1732				Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
Deposit Account Name	Withrow & Terranova, P.L.L.C.				105	130	205	65	Surcharge - late filing fee or oath	
<input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27					127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
<b>2.</b> <input checked="" type="checkbox"/> Payment Enclosed:					139	130	139	130	Non-English specification	
<input type="checkbox"/> Check <input checked="" type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other					147	2,520	147	2,520	For filing a request for reexamination	
<b>FEE CALCULATION</b>					112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
<b>1. BASIC FILING FEE</b>					113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description						
101	710	201	355	Utility filing fee						
106	320	206	160	Design filing fee						
107	490	207	245	Plant filing fee						
108	710	208	355	Reissue filing fee						
114	150	214	75	Provisional filing fee						
<b>SUBTOTAL (1)</b>										(\$ ) 710
<b>2. EXTRA CLAIM FEES</b>					115	110	215	55	Extension for reply within first month	
Total Claims	28	-20**	=	Extra Claims	8	X	Fee from below	18	=	144
Independent Claims	6	-3**	=	Extra Claims	3	X	Fee from below	80	=	240
Multiple Dependent				X			=			0
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description						
103	18	203	9	Claims in excess of 20						
102	80	202	40	Independent claims in excess of 3						
104	270	204	135	Multiple dependent claim, if not paid						
109	80	209	40	** Reissue independent claims over original patent						
110	18	210	9	** Reissue claims in excess of 20 and over original patent						
<b>SUBTOTAL (2)</b>										(\$ ) 384
<b>3. ADDITIONAL FEES</b>					116	390	216	195	Extension for reply within second month	
<b>FEE CALCULATION (continued)</b>					117	890	217	445	Extension for reply within third month	
<b>1. BASIC FILING FEE</b>					118	1,390	218	695	Extension for reply within fourth month	
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description						
101	710	201	355	Utility filing fee						
106	320	206	160	Design filing fee						
107	490	207	245	Plant filing fee						
108	710	208	355	Reissue filing fee						
114	150	214	75	Provisional filing fee						
<b>SUBTOTAL (1)</b>										(\$ ) 710
<b>2. EXTRA CLAIM FEES</b>					128	1,890	228	945	Extension for reply within fifth month	
Total Claims	28	-20**	=	Extra Claims	8	X	Fee from below	18	=	144
Independent Claims	6									

SUBMITTED BY				Complete (if applicable)	
Name (Print/Type)	Benjamin S. Withrow	Registration No. Attorney/Agent)	40,875	Telephone	919-654-4520
Signature				Date	October 15, 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:


CERTIFICATE OF MAILING/EXPRESS MAIL

"Express Mail" Mailing Label Number EL873243331US

Date of Deposit October 15, 2001

I hereby certify that this paper, which is a Utility Patent Application entitled  
**EFFICIENT OFDM COMMUNICATIONS WITH INTERFERENCE IMMUNITY** (our  
file 7000-103), and the attached fee are being deposited with the United States Postal Service  
"Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated  
above and is addressed to the Commissioner for Patents, Box Patent Application, Washington,  
D.C. 20231.

Mailed By:

  
Jennifer Rush

EL873243331US

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